1. **IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND THE COMPANY**

   1.1 CHEMICAL PRODUCT METACIL DA-DLP

   1.2 APPLICATION TEXTILE AUXILIARY

   1.3 COMPANY IDENTIFICATION I.C.I Pakistan Ltd.

   1.4 EMERGENCY TELEPHONE 111-100-200

2. **COMPOSITION/ INFORMATION ON INGREDIENTS**

   2.1 CHEMICAL DESCRIPTION ANIONIC SURFACTANT BLEND

   2.2 HAZARDOUS INGREDIENT(S) CAS NO. %( W/W) SYMBOL R PHRASES ALKYLSULPHATE SALT - 30-50 XI R38 R41

3. **HAZARDS IDENTIFICATION**

   THIS HEALTH HAZARD ASSESSMENT IS BASED ON A CONSIDERATION OF THE COMPOSITION OF THIS PRODUCT
4. FIRST AID MEASURES

4.1 EYE CONTACT
IMMEDIATELY IRRIGATE WITH EYEWASH SOLUTION OR CLEAN WATER, HOLDING THE EYELIDS APART, FOR AT LEAST 10 MINUTES OBTAIN IMMEDIATE MEDICAL ATTENTION CONTINUE IRRIGATION UNTIL MEDICAL ATTENTION CAN BE OBTAINED

4.2 SKIN CONTACT
REMOVE CONTAMINATED CLOTHING WASH SKIN WITH SOAP AND WATER. IF SYMPTOMS DEVELOP, OBTAIN MEDICAL ATTENTION

4.3 INGESTION
DOES NOT INDUCE VOMITING WASH OUT MOUTH WITH WATER AND GIVE 200-300 ML (HALF A PINT) OF WATER TO DRINK. OBTAIN MEDICAL ATTENTION

4.4 INHALATION
REMOVE PATIENT FROM EXPOSURE OBTAIN MEDICAL ATTENTION IF ILL EFFECTS OCCUR

5. FIRE EXTINGUISHING MEDIA

5.1 EXTINGUISHING MEDIA
AS APPROPRIATE FOR SURROUNDING MATERIALS/ EQUIPMENT

5.2 FIRE AND EXPLOSION HAZARDS
LOW FIRE HAZARD UNLIKELY TO IGNITE EXCEPT IN HIGH HEAT FLUX CONDITIONS

5.3 PROTECTIVE MEASURES
USE WATER WITH CARE TO AVOID POSSIBLE VIOLENT PRODUCTION OF STEAM A SELF CONTAINED BREATHING APPARATUS AND SUITABLE PROTECTIVE CLOTHING SHOULD BE WORN IN FIRE CONDITIONS

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS
NONE

6.2 ENVIRONMENTAL PRECAUTIONS
NONE

6.3 CLEANING UP
ADSORB SPILLAGES ONTO SAND, EARTH OR ANY SUITABLE ADSORBENT MATERIAL TRANSFER TO A CONTAINER FOR DISPOSAL. WASH THE SPILLAGE AREA CLEAN SPILLAGES OR UNCONTROLLED DISCHARGES INTO WATERCOURSES MUST BE ALERTED TO THE APPROPRIATE REGULATORY BODY
7. **STORAGE AND HANDLING**

7.1 **STORAGE**
STORE AT ROOM TEMPERATURE

7.2 **RECOMMENDED SHELF LIFE**
12 MONTHS

7.3 **HANDLING**
AVOIDS CONTACT WITH SKIN AND EYES AVOID INHALATION OF HIGH CONCENTRATIONS OF MISTS. HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE PRACTISES AND USUAL SAFETY MEASURES

8. **EXPOSURE CONTROLS/ PERSONAL PROTECTION**

8.1 **OCCUPATIONAL EXPOSURE LIMITS**
CHEMICAL NO OCCUPATIONAL EXPOSURE LIMIT ASSIGNED

8.2 **ENGINEERING MEASURES**
NONE

8.3 **PERSONAL PROTECTIVE EQUIPMENT**
RESPIRATORY PROTECTION NONE
HAND PROTECTION WEAR GLOVES
EYE PROTECTION WEAR GOGGLES
SKIN PROTECTION WEAR FACE SHIELD

9. **PHYSICAL/ CHEMICAL PROPERTIES**

9.1 **APPEARANCE**
PALE BROWN CLEAR LIQUID

9.2 **ODOUR**
AMMONICAL

9.3 **PH**
6 -8 (10% SOLUTION)

9.4 **VISCOSITY**
NOT ASSESSED

9.5 **FREEZING POINT**
NOT ASSESSED

9.6 **FREEZE THAW RECOVERY**
NOT ASSESSED

9.7 **BOILING POINT**
100° C APPROX.

9.8 **MELTING POINT**
NOT ASSESSED
9.9 FLASH POINT >100° C (CLOSED CUP)
9.10 AUTOFLAMMABILITY NOT ASSESSED
9.11 EXPLOSIVE PROPERTIES NOT ASSESSED
9.12 VAPOUR PRESSURE NOT ASSESSED
9.13 VAPOUR DENSITY NOT ASSESSED
9.14 RELATIVE DENSITY 1.15 APPROX.@20°C
9.15 SOLUBILITY SOLUBLE IN WATER.
9.16 PARTITION COEFFICIENT NOT ASSESSED

10. STABILITY AND REACTIVITY
10.1 STABILITY STABLE UNDER NORMAL INDUSTRIAL USE
10.2 CONDITIONS TO AVOID NONE KNOWN
10.3 MATERIALS TO AVOID STRONG OXIDISING AGENTS, STRONG ACIDS, ALKALIS
10.4 RECOMMENDED MATERIALS FOR EQUIPMENT COMPATIBLE WITH MOST MATERIALS
10.5 HAZARDOUS DECOMPOSITION PRODUCTS CARBON MONOXIDE, CARBON DIOXIDE, SULPHUR OXIDES

11. TOXICOLOGICAL INFORMATION
THIS HEALTH HAZARD ASSESSMENT IS BASED ON INFORMATION AVAILABLE ON SIMILAR PRODUCTS
11.1 SHORT TERM EFFECTS
EYE CONTACT RISK OF SERIOUS DAMAGE TO EYES
SKIN CONTACT IRRITATING TO SKIN
INGESTION INGESTION MAY CAUSE IRRITATION OF THE GASTROINTESTINAL TRACT
INHALATION UNLIKELY TO BE HAZARDOUS BY INHALATION UNLESS PRESENT AS AN AEROSOL HIGH CONCENTRATIONS OF MIST MAY BE IRRITANT TO THE UPPER RESPIRATORY TRACT

11.2 CHRONIC EFFECTS NO INFORMATION AVAILABLE
12. ECOLOGICAL INFORMATION

12.1 LC 50 (48 HOUR) (RAINBOW TROUT) (96 HOUR) (STATIC): >100MG/L LOW TOXICITY TO FISH

12.2 BOD (BOD 28 DAY): <0.1GO2/G

12.3 COD: 0.35 g O2/g

12.4 OTHER (OECD 301C): 73% DISSOLVED ORGANIC CARBON REMOVAL (DOC REMOVAL)

13. DISPOSAL CONSIDERATIONS

DISPOSE IN ACCORDANCE WITH LOCAL REGULATIONS i.e. TIPPING.

14. TRANSPORT INFORMATION

14.1 PACKAGING: 200 & 50 Kg PACKING

14.2 FREIGHT CLASSIFICATIONS: Xi

EC CLASSIFICATION: IRRITANT

UN NUMBER: N.A

ADR NUMBER: N.A

IMDG NUMBER: N.A

PACKING GROUP: N.A

TERM CARD: NOT APPLICABLE

15. REGULATORY INFORMATION

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (NONYL PHENOL ETHOXYLATE)

15.1 C.P.L CLASSIFICATION: NOT APPLICABLE

HAZARD PICTOGRAM: Xi
RISK PHRASES
R38: IRRITATING TO SKIN
R41: RISK OF SERIOUS DAMAGE TO EYES

SAFETY PHRASES
S26: IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.
S39: WEAR EYE/FACE PROTECTION

15.2 OTHER LEGISLATION
NOT APPLICABLE

16. OTHER INFORMATION
THIS DATA SHEET WAS PREPARED IN ACCORDANCE WITH DIRECTIVE 93/112/EC
WATER POLLUTING CLASS (WGK) = 3
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